

## INTERNATIONAL SEARCH REPORT

International Application No.  
PCT/GB 03/04529

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 E02D27/42 E02D27/52 E04H12/22 F03D1/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E02D E04H F03D E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CH 363 463 A (ANDERSSON GUSTAV MATTIAS) 31 July 1962 (1962-07-31)	1-6, 10-14
Y	page 1, line 35 -page 2, line 5 figures 1,2 ---	7-9,15
Y	CH 241 601 A (DESMEULES FRERES) 31 March 1946 (1946-03-31) page 1, line 31 -page 1, line 44 claims 2,4; figures 1-3 ---	7,9
Y	US 4 406 094 A (HEMPPEL JOACHIM ET AL) 27 September 1983 (1983-09-27) figure 1 ---	7,8,15
A	DE 597 543 C (OTTO WEINLIG DR;HEINRICH TOUSSAINT) 26 May 1934 (1934-05-26) figure 1 ---	1,7,9
		-/-

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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- \*'A\* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

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## INTERNATIONAL SEARCH REPORT

International Application No  
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 196 07 972 C (STRAEB GMBH & CO GEB) 15 January 1998 (1998-01-15) figures 1,13,15,30 ---	1-15
A	US 6 425 708 B1 (SIEGFRIEDSEN SONKE) 30 July 2002 (2002-07-30) claim 1; figures 1-3 ---	16,22
A	US 3 716 994 A (POGONOWSKI I) 20 February 1973 (1973-02-20) figures 1-3 ---	1,16,22
A	US 4 720 214 A (BRASTED LEE K ET AL) 19 January 1988 (1988-01-19) figures 1,5 -----	16

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PCT/GB93/04529

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
CH 363463	A	31-07-1962	NONE		
CH 241601	A	31-03-1946	NONE		
US 4406094	A	27-09-1983	DE	3007442 A1	03-09-1981
			FR	2477198 A1	04-09-1981
			NL	8100231 A	01-10-1981
			SE	442310 B	16-12-1985
			SE	8100608 A	29-08-1981
DE 597543	C	26-05-1934	NONE		
DE 19607972	C	15-01-1998	DE	19607972 C1	15-01-1998
US 6425708	B1	30-07-2002	DE	19860211 C1	23-11-2000
			AT	222670 T	15-09-2002
			AU	3030800 A	31-07-2000
			CN	1326603 T	12-12-2001
			WO	0039903 A1	06-07-2000
			DE	59902424 D1	26-09-2002
			DK	1145397 T3	09-12-2002
			EP	1145397 A1	17-10-2001
			ES	2178498 T3	16-12-2002
			JP	2002534942 T	15-10-2002
US 3716994	A	20-02-1973	NONE		
US 4720214	A	19-01-1988	GB	2192923 A ,B	27-01-1988
			NO	872128 A ,B,	23-11-1987